Availability of Draft Impairment-Based Tracking Progress Metrics on FED website

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CenSARA call - June 22nd , 2017

Collaborators:

Shawn McClure: CIRA (FED Website work)

Brett Gantt, Neil Frank, Melinda Beaver: US EPA OAQPS

Bret A. Schichtel, John Vimont: National Park Service

Background photo courtesy of NASA

Methods

- **Data presented are based on RHR tracking progress guidance using second IMPROVE algorithm. Substituted data is being added, but is not ready yet.**
- **Clear days calculations do not change in the impairment approach.**

- "RHR3" = my shorthand for "impairment metric" approach.
- **Impairment was determined by the technique described in:**

Draft Technical Support Document (TSD) *Revised Recommendations for Visibility Progress Tracking Metrics for the Regional Haze Program*. EPA, May 2016.

Impairment metric has two parts: split and sort

- For sorting purposes only, days are split into fractions of “natural” and “anthropogenic.” The guidance on splitting days is a default, but works well.

- Days are sorted by the *fraction* that is anthropogenic. All haze on the 20% days with the highest anthropogenic fraction is included.

This is so important, that it gets its own slide!

- **No data is changed!** We are only looking at a different subset of days…

… days that should be representative of the highest impairment, which ***"results from manmade air pollution"*.**

Main IMPROVE websites:

- http://views.cira.colostate.edu/fed/
  - Data queries
  - Canned Graphics (draft impairment metrics)

- http://vista.cira.colostate.edu/Improve/
  - Winhaze
  - Key documents

views.cira.colostate.edu/fed/SiteBrowser/Default.aspx

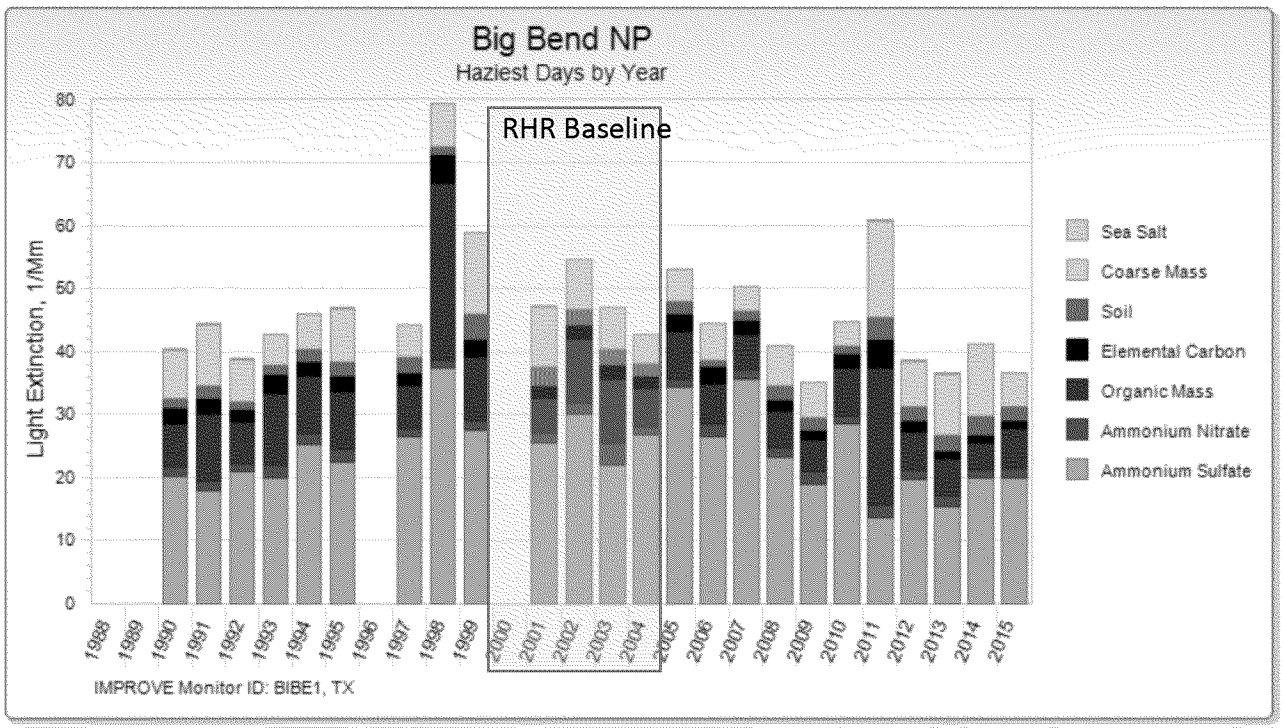
Federal Land Manager Environmental Database

AQRV Summaries | Data Exploration | Data Access | Resourc

Start Date: 03/02/1988 End Date: 12/29/2015

Dv Trends | Haze Budgets, Clear Days | Haze Budgets, Hazy Days | Haze Budgets, Most Impaired Days (DRAFT)

Light Extinction Summary - Haziest Days



+ Show chart data Chart data in Microsoft Excel

views.cira.colostate.edu/fed/SiteBrowser/Default.aspx

Federal Land Manager Environmental Database

AQRV Summaries | Data Exploration | Data Access | Resourc

Reset view | De-select all (1) | Latitude:34.27810, Longitude:-117.49219, Zoom Level: 4

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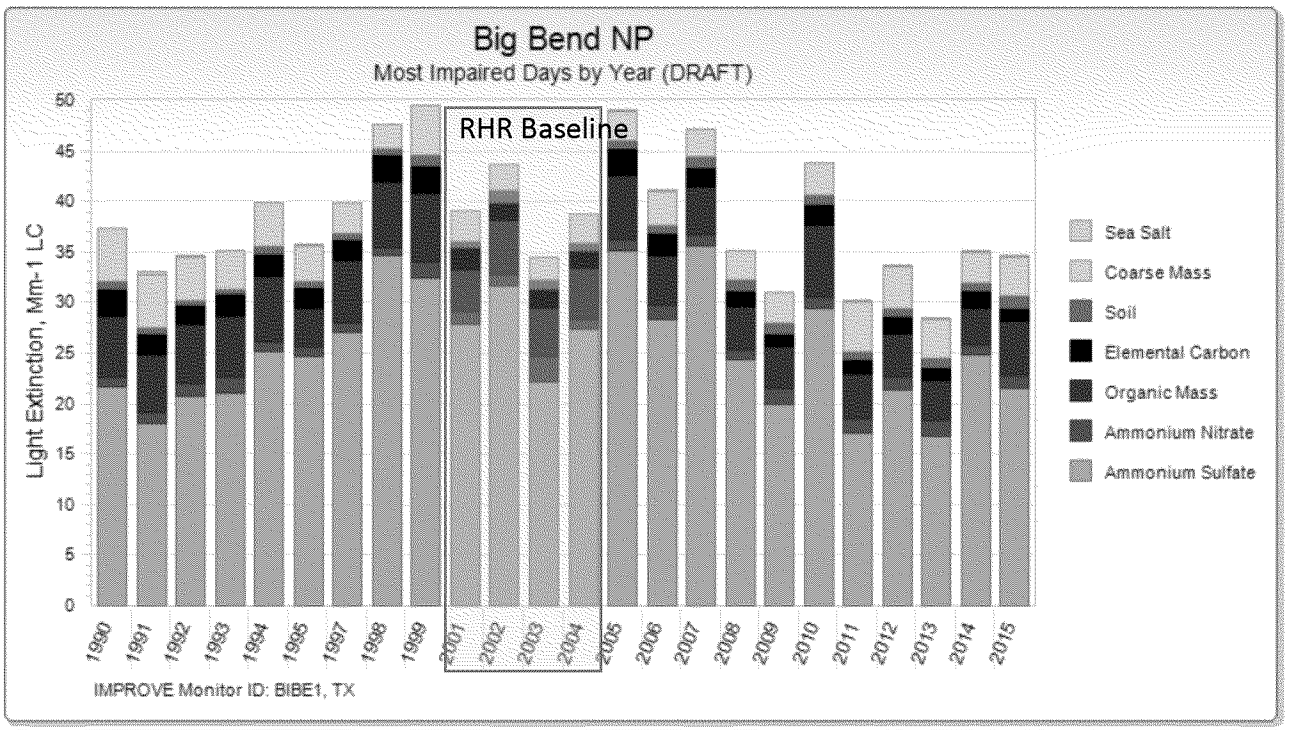
Light Extinction Summary - Most Impaired Days (DRAFT)



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Closing comments:

- 2016 IMPROVE data will be delayed, likely until roughly November.
  - Delay should be shorter for 2017 data.
- EPA's final impairment guidance document release date is uncertain.
- I am working on reproducing the 2064 endpoint values from the guidance.

- **Impairment metric is intended to focus on human caused haze, *not* to get rid of smoke and dust.**

- **Feel free to contact me with questions and comments.**

Questions?